

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 22084-71990	SERIAL NO. <del>Unknown</del> 10/620,221
	APPLICANT Gary A. Koppel	
	FILING DATE herewith	GROUP <del>Unknown</del> 1614

## U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	KA 4,268,503	May 19, 1981	H. Imanaka, et al.			
	KB 4,302,447	Nov. 24, 1981	D.F. Horrobin			
	KC 4,594,247	June 10, 1986	G.L. Brier			
	KD 5,763,603	June 9, 1998	G. Trices			
	KE 5,795,877	August 18, 1998	P.F. Jackson, et al.			
	KF 5,824,662	October 20, 1998	B.S. Slusher, et al.			
	KG 5,863,536	January 26, 1999	P.F. Jackson, et al.			
	KH 5,880,112	March 9, 1999	P.F. Jackson, et al.			
	KI 5,905,076	May 18, 1999	R. Singh, et al.			
	KJ 5,912,242	June 15, 1999	P. Pevarello, et al.			
	KK 5,968,915	October 19, 1999	P.F. Jackson, et al.			

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No
	KL WO 95/20980	August 10, 1995	PCT International Application			
	KM					
	KN					
	KO					
	KP					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

KR	"The Relation Between Fear Induced by Novel Stimulation and Exploratory Behavior" by K.C. Montgomery, J. Comp. Physiol. Psychol. (1955) vol. 48, 254-260.
KS	"Action of Penicillin on Inhibitory Processes in the Cat's Cortex" by H.V. Duijn, P.A. Schwartzkroin, and D.A. Prince, Brain Res. (1973) vol. 53, 470-476.
KT	"Convulsant Actions of Penicillin: Effects on Inhibitory Mechanisms" by H. Meyer and D. Prince (1973) vol. 53, 477-482.
KU	"Penicillin Decreases Chloride Conductance in Crustacean Muscle: A Model for the Epileptic Neuron" by B. Hochner, M.E. Spira, and R. Werman, Brain Res. (1976) vol. 107, 85-103.
KV	A.B. Chernomordik, Klin. Med. (1980) vol. 2, 102-105.
KW	"Antagonism by Penicillin of Gamma-Aminobutyric Acid Depolarizations at Presynaptic Sites in Rat Olfactory Cortex and Cuneate Nucleus In Vitro" by H.G. Pickles and M.A. Gimmonds, Neuropharmacology (1980) vol. 19, 35-38.
KX	"GABA and the Behavioral Effects of Anxiolytic Drugs" by D.J. Sanger, J. Life Sciences (1985) vol. 36, 1503-1513.
KY	"Convulsant Doses of Penicillin Shorten the Lifetime of GABA-Induced Channels in Cultured Central Neurons" by P. Chow and D. Mathers, Br. J. Pharmac. (1986) vol. 88, 541-547.

Examiner /Leslie Royds/ (05/18/2008)	Date Considered
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## U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	LA 5,977,090	Nov. 2, 1999	B.S. Slusher, et al.			
	LB 6,004,946	Dec. 21, 1999	B.S. Slusher, et al.			
	LC 6,015,809	January 18, 2000	T. Zhu, et al.			
	LD 6,017,903	January 25, 2000	B.S. Slusher, et al.			
	LE					
	LF					
	LG					
	LH					
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## FOREIGN PATENT DOCUMENTS

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	LL					
	LM					
	LN					
	LO					
	LP					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

LR	"N-methyl-D-aspartate Receptors and the Enhancement of Somatosensory Evoked Potentials in Penicillin Epileptogenesis in Rats" by Z.I. Bashir and O. Holmes, Physiological Society (1987) 19P.
LS	"Competitive Inhibition of N-Acetylated-alpha-Linked Acidic Dipeptidase Activity by N-Acetyl-L-Aspartyl-beta-Linked L-Glutamate" by V. Corvel, L. Deleite, A. Pitteluga, A. Cheramy, C. Lavielle, and J. Glowinski, J. Neurochemistry (1990) vol. 55, 39-46.
LT	"Time Course of Interictal EEG Patterns Induced by a Penicillin Injection into the Olfactory Cortex" by F. Horn, K. Esseling, and R. Wagner, Pharmacology Biochemistry & Behavior (1991) vol. 40, 351-357.
LU	"The Pharmacology of Recombinant GABA <sub>A</sub> Receptors Containing Bovine alpha1, beta1, gamma2L Sub-units Stably Transfected into Mouse Fibroblast Cells" by A.L. Home, R.L. Hadingham, A.J. Macaulay, P. Whitting, and J.A. Kemp, Br. J. Pharmacology (1992) vol. 107, 732-737.
LV	I.V. Batueva, N.P. Veselkin, and R. Veskov, Neirofiziologiya (1992) vol. 24 (2) 151-160.
LW	"Increased Intra- and Extracellular Concentrations of Gamma-Glutamylglutamate and Related Dipeptides in the Ischemic Rat Striatum: Involvement of Gamma-Glutamyl Transpeptidase" by O. Owar, Y. Li, P. Andino, C.-M. Bergström, H. Hagberg, S. Folestad, and M.
LX	"Endogenous Gamma-L-Glutamyl and Beta-L-Aspartyl Peptides and Excitatory Aminoacidergic Neurotransmission in the Brain" by V. Varga, R. Janaky, P. Serenyi, and G.G. Oja, Neuropeptides (1994) vol. 27, 19-26.
LY	"Penicillins and Their Derivatives: Anticure/Antistress Properties?" by A.V. Kalueff, G.E. Samonina, and I.P. Ashmann, Neuropsychopharmacology (1994) vol. 10, 272S.
LZ	"Behavioral Effects of Penicillin in a Test for Anxiety in Rats" by A.V. Kalueff, G.E. Samonina, and I.P. Ashmann, Bulletin of Experimental Biology and Medicine (1995) vol. 120, 984-986.

Examiner /Leslie Royds/ (05/18/2008)

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	MA						
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	ML						
	MM						
	MN						
	MO						
	MP						

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

MR	"Design, Synthesis, and Biological Activity of a Potent Inhibitor of the Neuropeptidase N-Acetylated Alpha-Linked Acidic Diesterase" by P.F. Jackson, D.G. Cole, D.G. Glendon, G. Stet, L.E. Ross, B.A. Bonzanti, and D.A. Trainor, J. Med. Chem. (1996) vol. 39(2), 619-622.
MS	"Gamma-L-Glutamyl-L-Aspartate Induces Specific Deficits in Long-Term Memory and Inhibits [ <sup>3</sup> H]Glutamate Binding on Hippocampal Membranes" by A. Ungerer, M.S. George, C. Melani, Y. Boulanger, J. Reinhold, I. Amiri, and J.D. Barry, Brain Res. (1988) vol. 446, 205-211.
MT	
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Examiner /Leslie Royds/ (05/18/2008)	Date Considered
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	NA					
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## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No
	NL WO 97/10247	March 20, 1997	PCT			
	NM					
	NN					
	NO					
	NP					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

NQ	E.F. Reynolds, "Martindale, The Extra Pharmacopoeia," Royal Pharmaceutical Society, London, Page 211, Column 2-3, (1996) XP-002161510
NR	Passani, Lucius A., et al., "N-acetylaspartylglutamate, N-acetylaspargate, and N-acetylated alpha-linked acidic dipeptidase in human brain and their alterations in Huntington and Alzheimer diseases," <i>Molecular and Chemical Neuropathology</i> , vol. 31, No. 2, pages 97-118, (1997) XP-000987254
NS	Mackinn, M.L., "Behavioral changes after amoxicillin-clavulanate," letter, <i>Pediatric Infectious Disease Journal</i> Vol. 6, No. 9, (September 1987) XP-000987254
NT	Tsai, Guochuan, et al., "Abnormal Excitatory Neurotransmitter Metabolism in Schizophrenic Brains" <i>Archives of General Psychiatry</i> , Vol. 52, No. 10, pages 829-836, (1995) XP-000987256
NU	Pangalos, Menelas N., et al. "Isolation and expression of novel human glutamate carboxypeptidases with N-acetylated alpha-linked acidic dipeptidase and dipeptidyl peptidase IV activity" <i>Journal of Biological Chemistry</i> , Vol. 274, No. 13, pages 8470-8483 (March 26, 1999), XP-002161509
NV	
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NX	
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	OA						
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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	OL	1 508 977	26 April 1978	Great Britain			
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## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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	PA	6,204,260 B1	Mar. 20, 2001	Bruns, Jr. et al.			
	PB	2002/0002159 A1	Jan. 3, 2002	Koppel			
	PC	2002/0028761 A1	Mar. 7, 2002	Koppel et al.			
	PD	2002/0049187 A1	Apr. 25, 2002	Bruns, Jr. et al.			
	PE						
	PF						
	PG						
	PH						
	PI						
	PJ						
	PK						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	PL	WO 97/35839	Oct. 2, 1997	PCT			
	PM	WO 98/32766	July 30, 1998	PCT			
	PN	WO 99/36403	July 22, 1999	PCT			
	PO	WO 00/62067	Oct. 19, 2000	PCT			
	PP						

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	PR	Drummond, J. et al., "Synthesis of a Cognition Enhancing Beta-Lactam Fused Gamma-Lactam", <i>Tetrahedron Lett.</i> , 28(44):5245-8, (1987)
	PS	Kabanov, A. et al., "The neuroleptic activity of haloperidol increases after its solubilization in surfactant micelles", <i>FEBS LETTERS</i> , (1989)
	PT	Nilsson, B. et al., "β-Lactam Analogues of Oxotremorine 3- and 4-Methyl-Substituted 2-Azetidinones", <i>J. Med. Chem.</i> , 33:580-4, (1990)
	PU	
	PV	
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